



The Future of Operational Health Support

CAF / MAF SG CONFERENCE

EMEDS FUTURE

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HQ ACC/SGX
Office of the Command
Surgeon**

OVERVIEW

- **EMEDS core capability**
- **SPEARR**
- **Basic and proposed changes**
- **Logistics / IM-IT**
- **Chemically Protected (CP) EMEDS**
- **Training**
- **Production schedule and fielding plans**
- **Building block capability**
- **EMEDS / SPEARR Summit results**

EMEDS FOCUS

- **Light, lean, modular, lifesaving**
- **Small footprint**
 - **Logistics and personnel**
- **Robust initial capability**
 - **Primary care / prev focus**
 - **Trauma resuscitation**
- **Multi-functional team composition**
- **Timely expeditionary A/E**
- **Maximum command and control flexibility**



SPEARR CONCEPT

The Leading Edge of the EMEDS Basic

- **Separate CONOPs for unique, frequently used force package**
- **Completely interoperable**
 - **Augmented by EMEDS Basic**
- **Key concepts**
 - **Rapid response**
 - **Maximum mobility**
 - **Multifunctional**
 - **Highly capable**



SPEARR CONCEPT

The Leading Edge of the EMEDS Basic

- **Provides extremely mobile clinical disaster / contingency operations team**
- **Flexibility: Two modes of employment**
 - **Man-portable backpacks using shelter(s) of opportunity**
 - **Sling loadable trailer (1 pallet**

supplies



SPEARR CONCEPT

The Leading Edge of the EMEDS Basic

- **10-Person Subset of EMEDS Basic UTCs**
 - **2-Person Prevention and Aerospace Med Tm**
 - **5-Person Mobile Field Surgical Tm**
 - **3-Person Expeditionary Critical Care Tm**
- **Targeted Population**
 - **Initial military / civilian**
 - **Up to 500 personnel**
 - **7 days of supply**



SPEARR CONCEPT

The Leading Edge of the EMEDS Basic

- **Initial Disaster Medical Assessment**
- **Public Health / Preventive Medicine**
- **Primary Care**
- **Flight Med**
- **Emergency Medicine**
- **Emergency Surgery**
- **Crit Care Stabilization**
- **A/E Coordination**



EMEDS BASIC DOCTRINE

- **3 Pallets (includes 1 pallet SPEARR) and 25 People**
- **Population at Risk (PAR) of 500-2000**
- **Expeditionary Combat Support Is Provided**
- **Utilize Vehicles of Opportunity for Patient Transport**
- **Not Dependent on Host Nation Support**
- **Austere Environment; Resupply in 7 Days**
- **CBW Threat Is Low**

EMEDS BASIC CAPABILITY

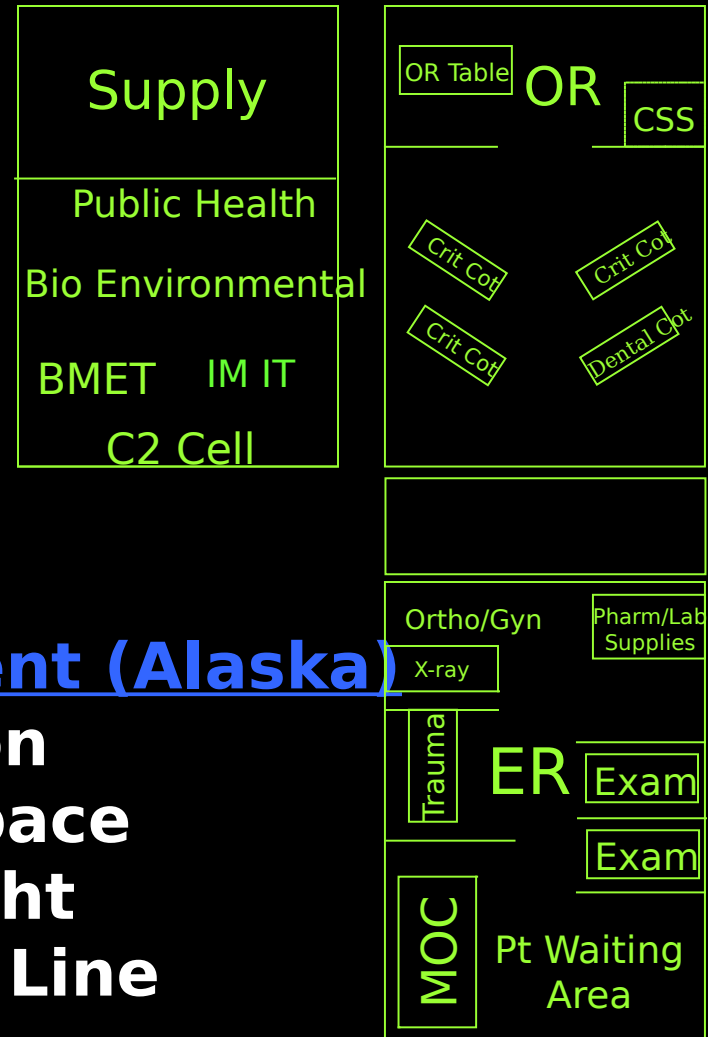
- **Robust Primary Care and Prevention**
- **Disaster Response**
 - **10 serial damage control surgeries or 20 non-operative resuscitations without resupply**
 - **Up to 30 units refrigerated group O blood**
- **AE Policy Is Less Than 1-day; Urgent ASAP**
- **4 Pt Holding Bed Capacity Less Than 24 Hours**

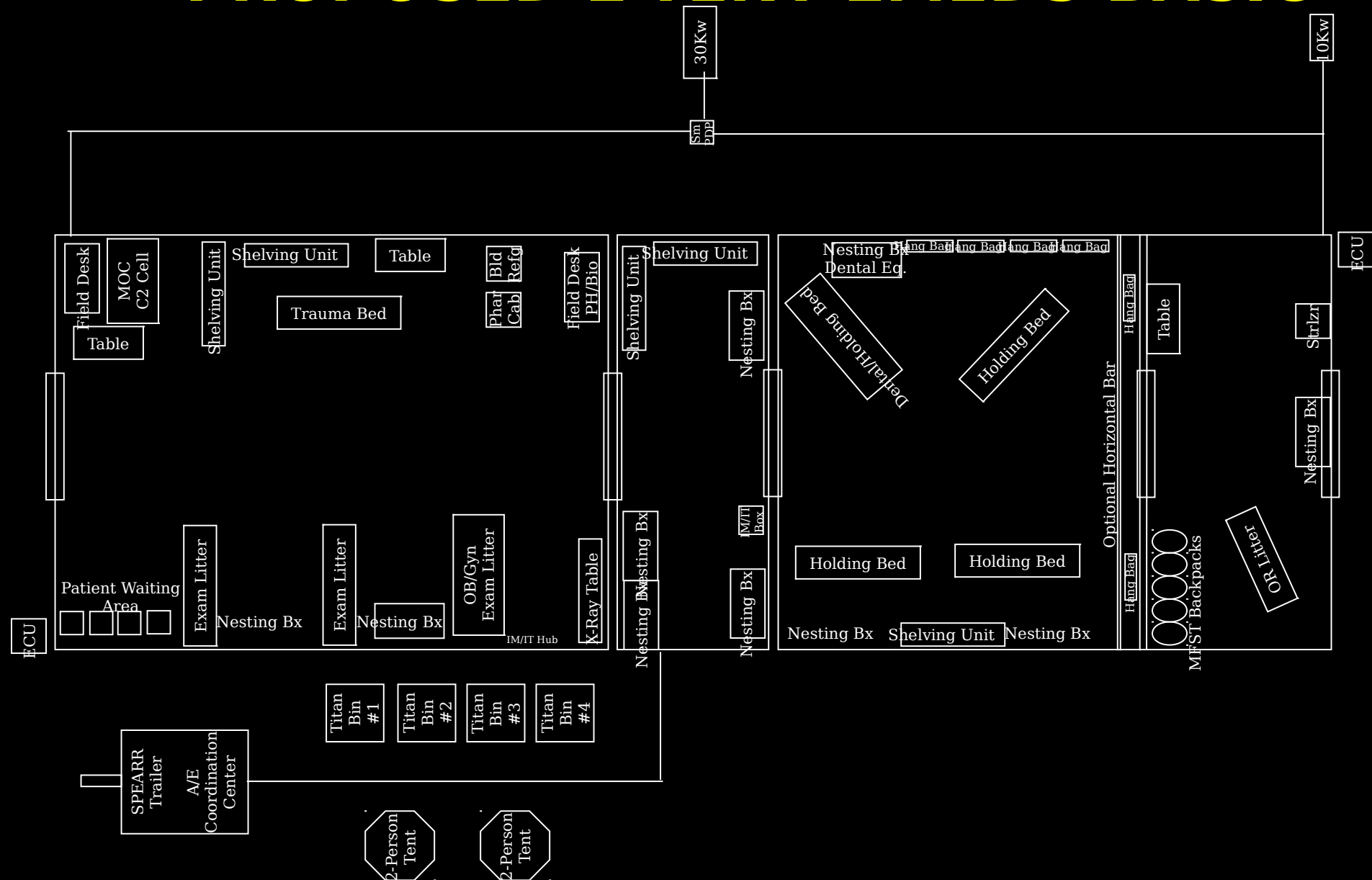
BASIC CONFIGURATION



Expeditionary Falcon Tent (Alaska)

- More Efficient Insulation
- Increased Overhead Space
- 25% Reduction in Weight
- Under Procurement by Line





PROPOSED TWO TENT CONFIGURATION

- **Push-pallet with tent, ECU, OR Table and resupply items will arrive in 10-14 days**
- **Now able to deploy with organic power**
- **Must store some supplies outside tent in Titan Bins**
- **OR becomes multi-functional when not being used for surgery**
- **Use trailer and four man tents wisely**

AUGMENTATION CAPABILITY

- **Biological Aug. Tm**
- **Frozen Blood Product Tm**
- **Endodontic Aug. Tm**
- **ENT Aug. Tm**
- **Ophthalmology Aug Tm**
- **Optometry Aug. Tm**
- **Thoracic/Vascular Surg. Tm**
- **Mental Health Rapid Response Tm**
- **BEE NBC Tm**
- **Radiology Aug. Tm**
- **Patient Decontamination Tm**
- **OB Treatment Tm**
- **GYN Treatment Tm**
- **Infectious Disease Tm**
- **Pediatric Module**
- **Urology Aug. Tm**
- **Neurosurgical Aug. Tm**
- **Primary Care Treatment Tm**
- **Nuclear Incident Response Force Team 1/2**
- **Radioanalytical Assessment Tm**

Note: List not all inclusive, 159 Medical/Equipment Unit Type C

LOGISTICS IMPACT

- Major Reductions in Weight/Cube
 - Reengineered resupply system (10 Days Vs. 30 Days)
 - Alaska Shelter reduces tentage weight by 25%
 - Technology Cumulative (e.g., CD ROM, Forms)

*Includes rolling stock and generator

Pallets Airlift

25-Bed ATH

55

3 C-

17s*

EMEDS +25

25

1.3 C-

17

EMEDS +10

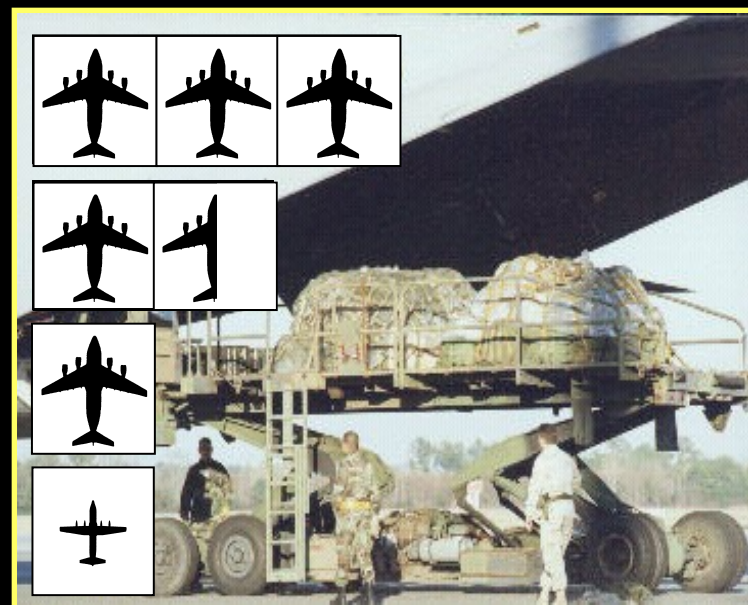
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1 C-17

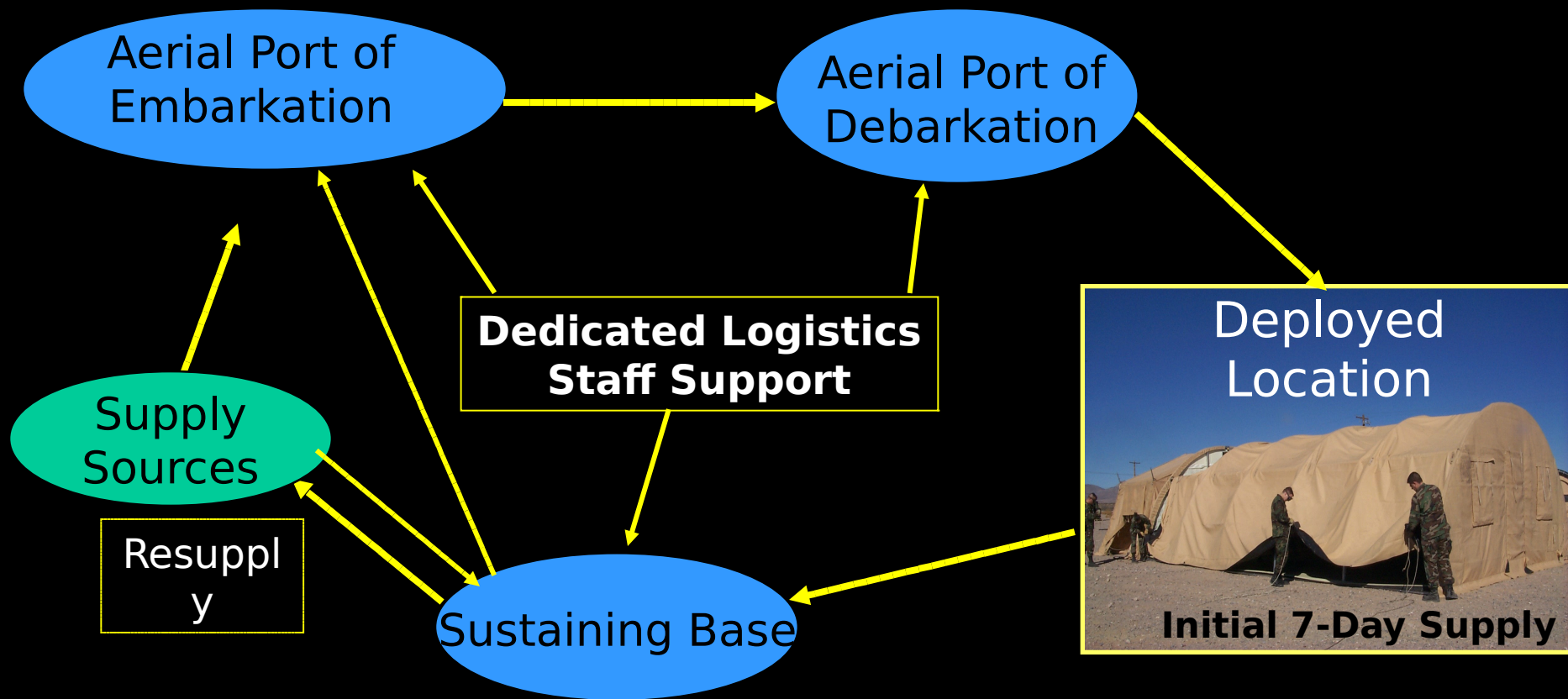
EMEDS Basic

3

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LOGISTICS “REACH BACK” PIPELINE



- **Multiple Sources Worldwide**
- **Large Metro Area (Accessibility)**

EMEDS IM / IT

- **Insertion begins at EMEDS Basic**
- **3 Servers**
- **26 Laptops**
- **Training by TMIP**
 - **GEMS**
- **Improved M-4 (laptop)**
Satellite Communications
- **Personal E-Mail Accounts**
- **MSOffice / Dental / Sarah Lit**
FormFlow / UDR



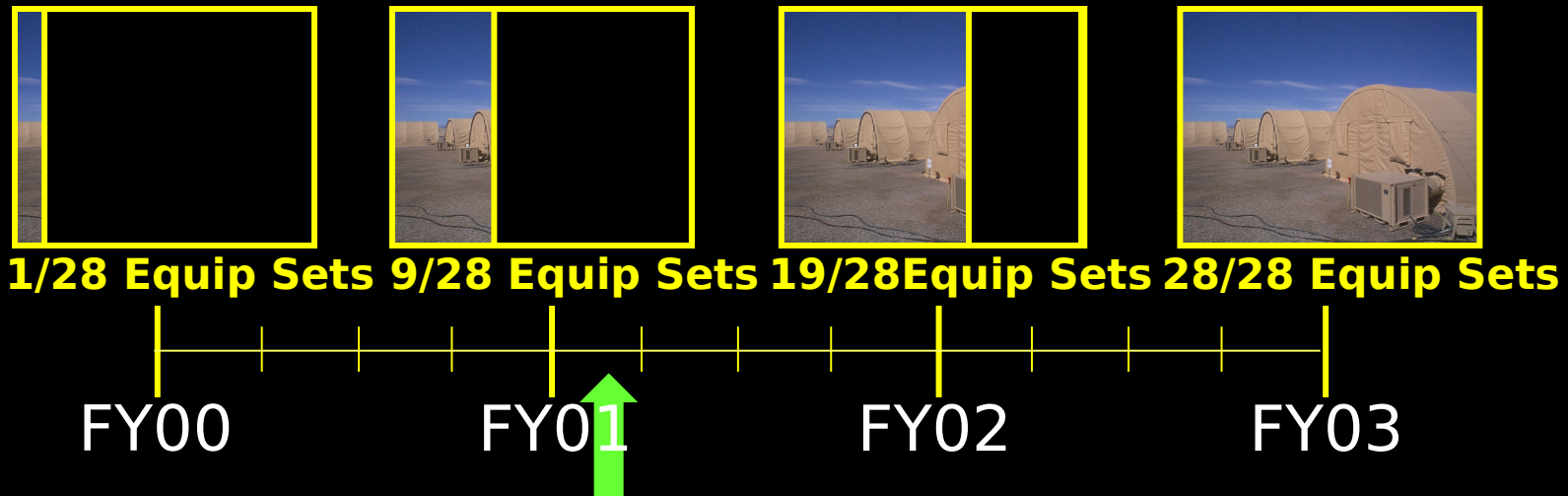
EMEDS TRAINING

- **Orientation training by ACC/SG Transition Team**
 - **Focus on infrastructure / equipment familiarization**
 - **Provides “first look” at EMEDS**
 - **Scheduled by ACC Transition Team**
- **Formal “in-residence” training**
 - **School of Aerospace Medicine (Brooks AFB TX)**
 - **Focus on EMEDS Basic and +10 increments**
 - **+25 training at home station or just-in-time**
 - **Clinical / operationally intense 6-day course in field**
 - **Formal course dates scheduled by Air Staff**

SPEARR TRAINING

- **Joint Trauma Training Centers**
 - **Ben Taub**
 - **Baltimore**
 - **St Louis**
 - **Albuquerque**
- **Training Priority**
- **RSVP for smaller facilities (Langley) ?**

PRODUCTION SCHEDULE

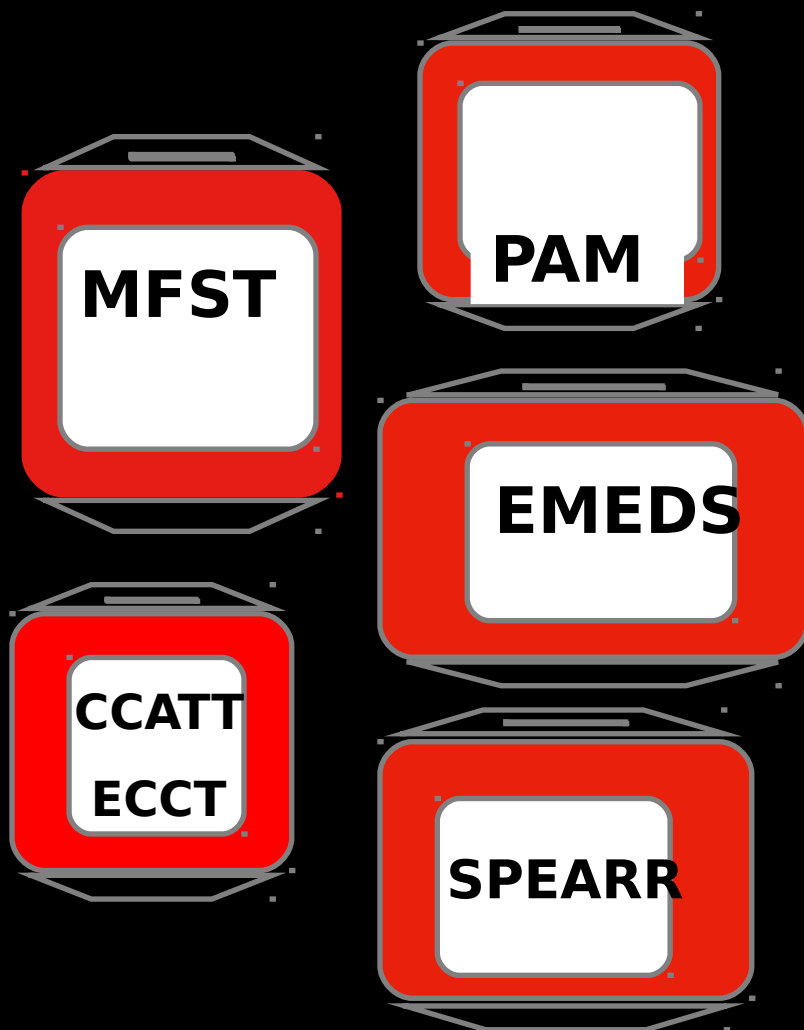


Equipment Fielded To Date: (9) Basic, (9) +10, (5) +2

Total Production

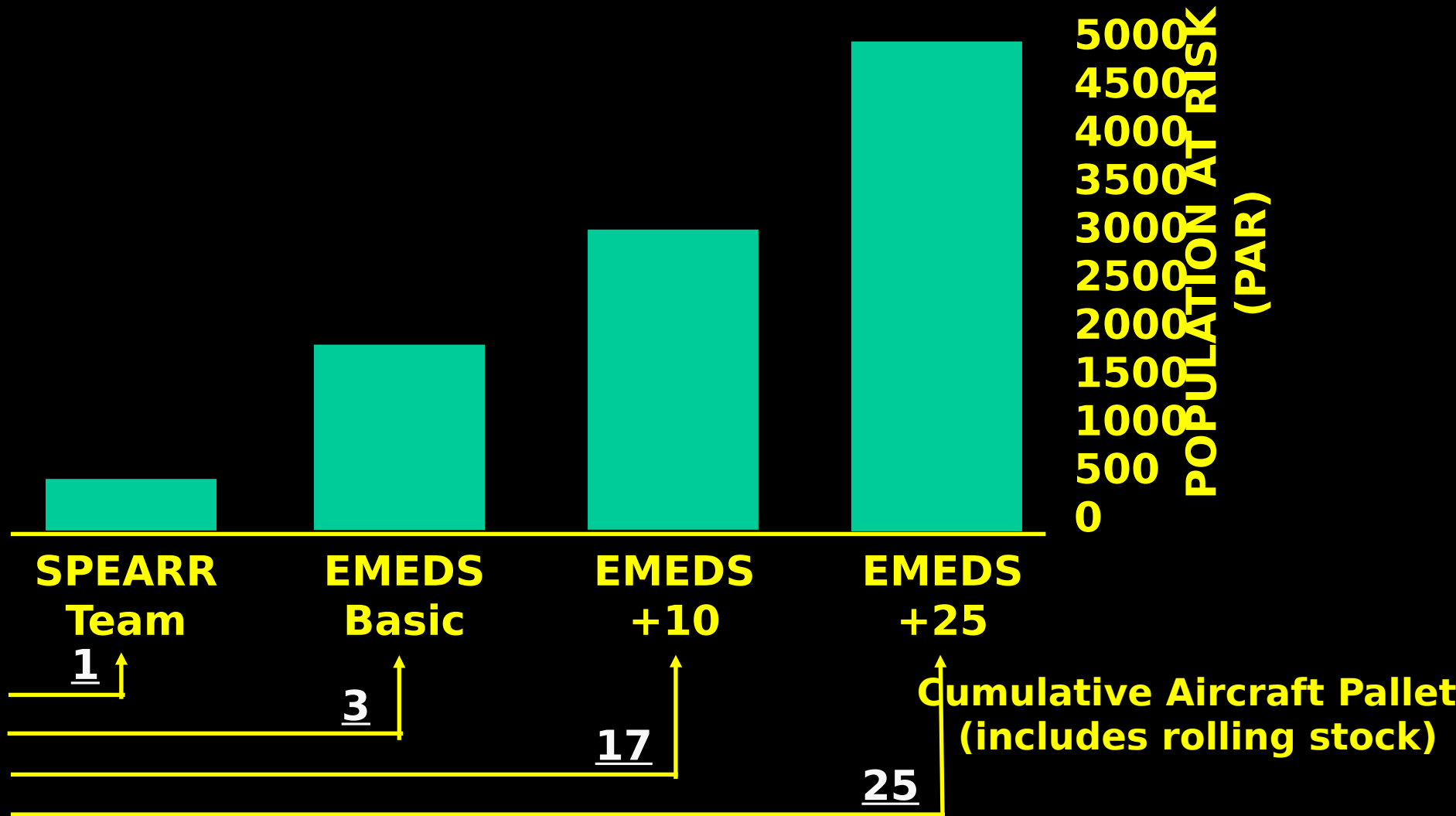
- 28 EMEDS Basic sets
- 26 EMEDS +10 Bed
- 18 EMEDS +25 Bed
- 32 SPEARRs - 4 Stand-alones

MEDICAL BUILDING BLOCKS: MODULAR RESPONSE



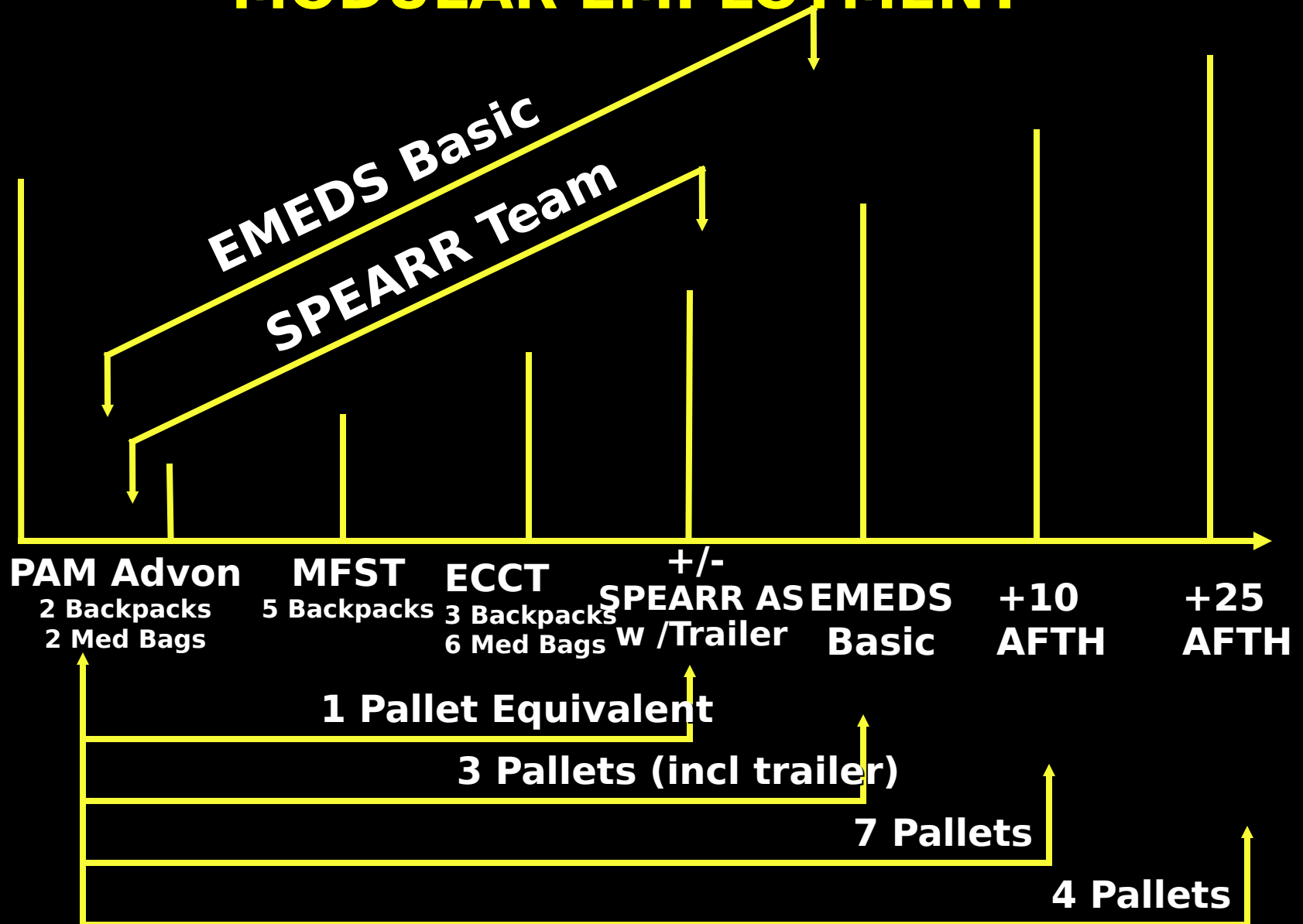
- **Problem specific treatment**
- **Increased efficacy**
- **Extends limited resources**
- ***Maximizes options for CCs***
- **Flexible force modules**

EMEDS CONCEPT



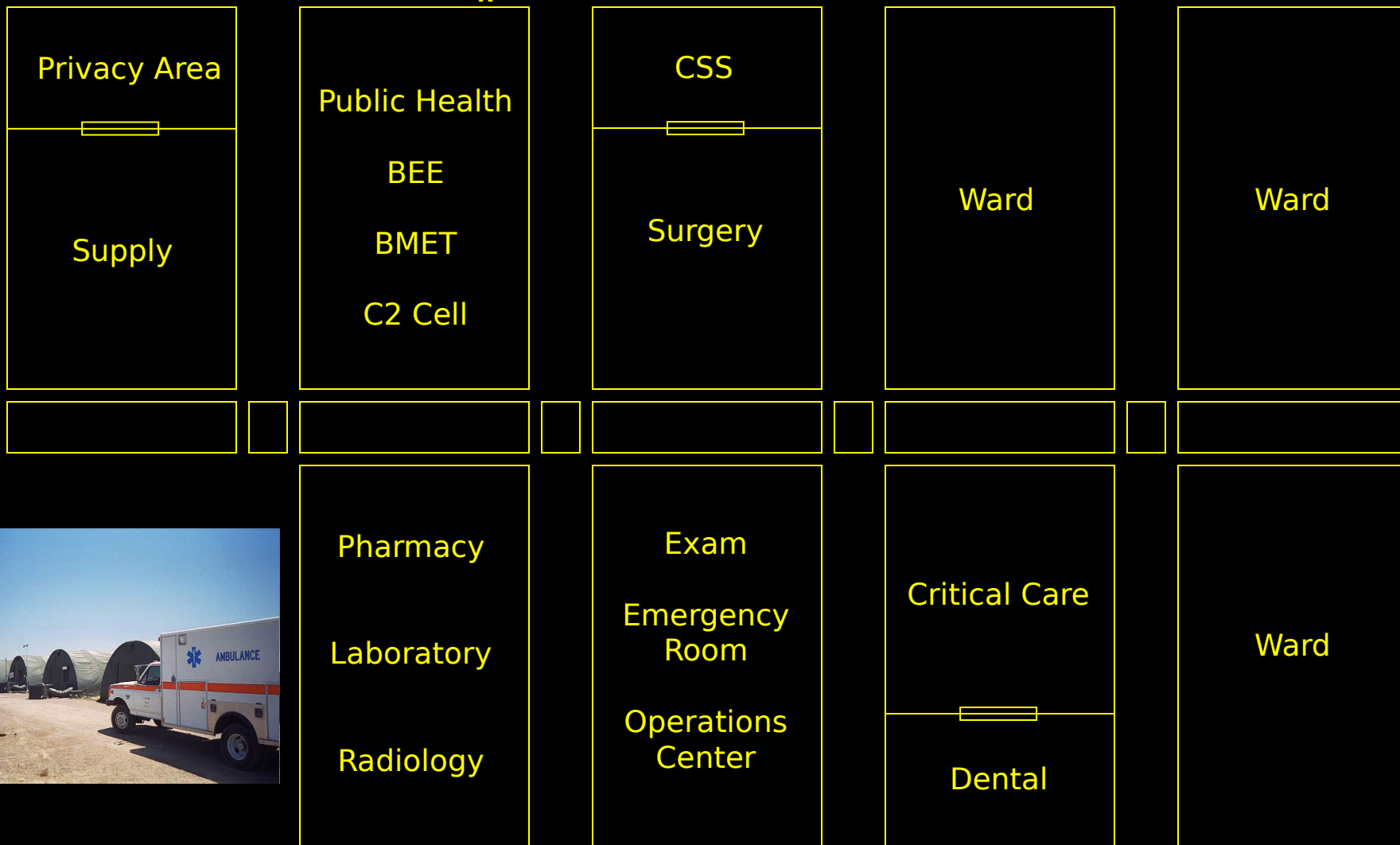
Expandable in 25-Bed Increments and/or Specialty

SPEARR and EMEDS / AFTH CONOPS: MODULAR EMPLOYMENT





EMEDS +25



EMEDS TRANSITION

CHEMICALLY PROTECTED EMEDS (CP-EMEDS)

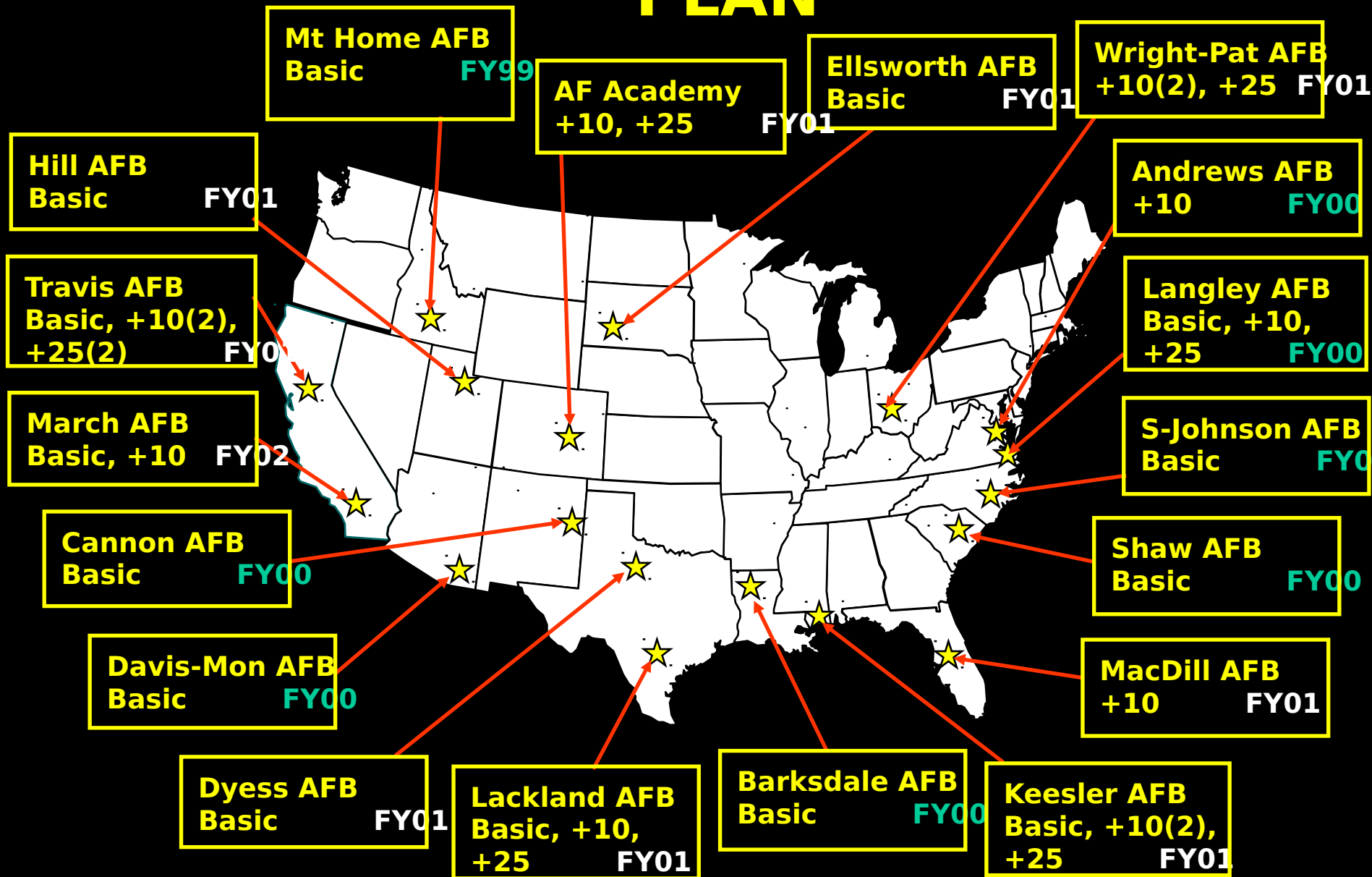
- Planned, near-term enhancement
- Adapt CHATH technology to EMEDS
- Preliminary testing successful
 - Oct 00 final design / engineering tests
- Chemical protection starts at EMEDS Basic level
- Preliminary plan is to centrally store 10-12



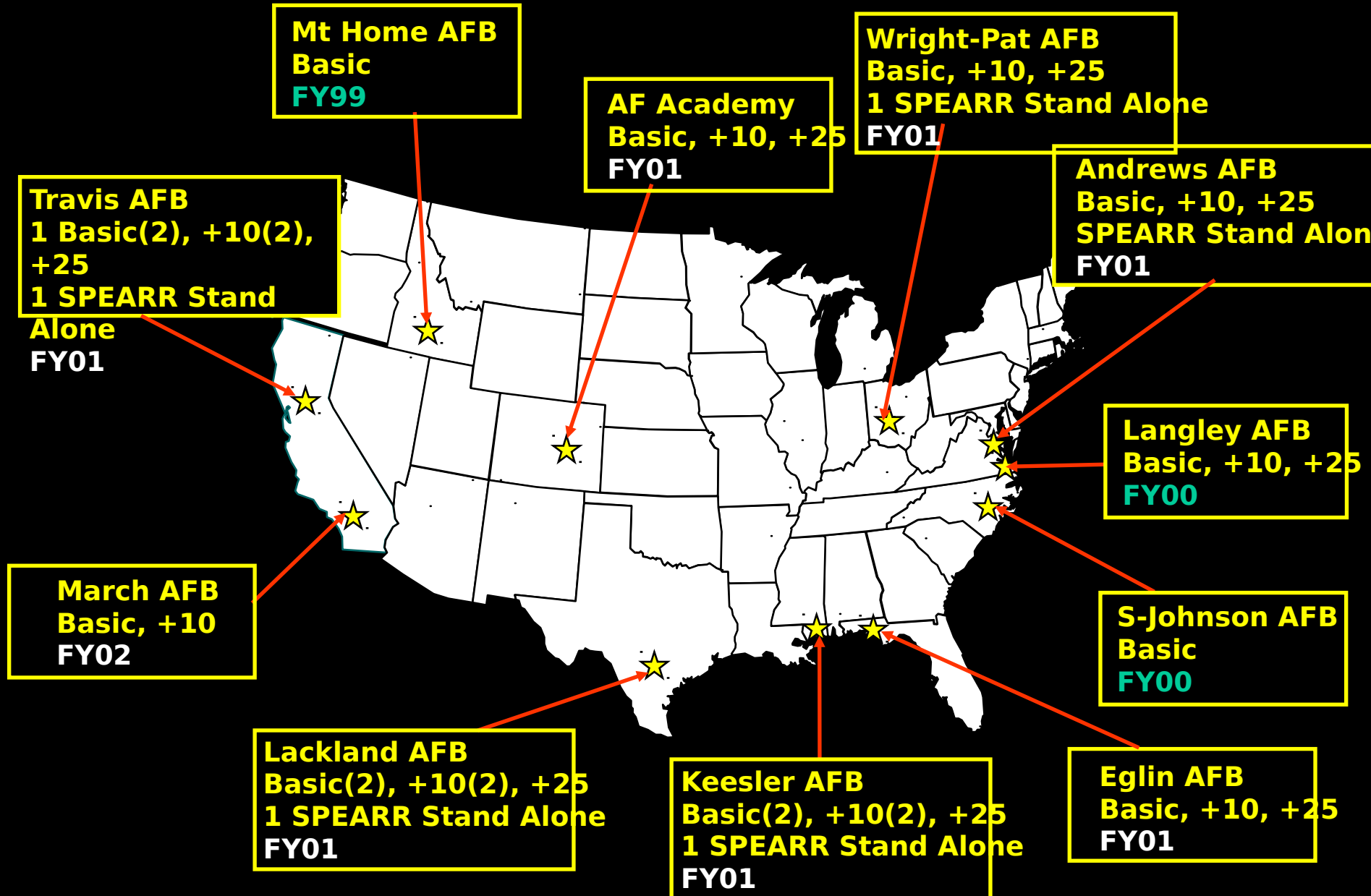
CP - EMEDS



CURRENT CONUS BEDDOWN PLAN



PROPOSED CONUS BEDDOWN



CURRENT OCONUS BEDDOWN PLAN

Base / Region	Capability	Operational
Ramstein AB GE	Basic, +10, *+25	FY00
Lakenheath AB UK	Basic, +10, +25	FY00
Elmendorf AFB, AK	Basic, +10, +25	FY00
Yokota AB, JP	Basic, +10, +25	FY01
Spangdahlem AB GE	Basic, +10, +25	FY01
Korean Peninsula	Basic(5), +10(5) +25(5)	FY01
Southwest Asia	Basic(4), +10(4), +25(1)	FY02

Note: *+25 package arrives FY01

One complete package available in Korea in FY01

PROPOSED OCONUS BEDDOWN PLAN

Base / Region	Capability	Operational
Ramstein AB GE	Basic, +10, *+25	FY00
Lakenheath AB UK	Basic, +10, +25	FY00
Elmendorf AFB, AK	Basic, +10, +25	FY00
Yokota AB, JP	Basic, +10, +25	FY01
Spangdahlem AB GE	Basic, +10	FY01
Korean Peninsula	Basic(5), +10(5) +25(5)	FY01
Southwest Asia	Basic(4), +10(4), +25(1)	FY02

Note: *+25 package arrives FY01

One complete package available in Korea in FY01

SPEARR / EMEDS SUMMIT

- **Held 3-5 Jan 01 at Air Force Medical Logistics Office (AFMLO)**
- **Attendees: SPEARR/EMEDS subject matter experts from throughout the Air Force**
- **Goal: Satisfy expectations and identify existing and projected capabilities and resources**

SPEARR / EMEDS SUMMIT

911 RESPONSE OPTIONS

- **Provide CINCs a streamlined medical disaster response capability and tasking process**
- **Align 911 response with Lead Mobility Wings (LMW) - associated, not necessarily co-located**
- **Execute 911 response through TACC**
- **Associate Medical UTCs in the LMW UTC within a LAA TPFDD**

EMEDS / SPEARR SUMMIT

911 RESPONSE OPTIONS

- **Establish Unified Command CONPLANs w/ TPFDDs**
- **Place in AEWs (2 each + 1 for Iron) (*60 / 60)**
- **3 in each AEF pair for sustainment**
 - **PSAB (CENTCOM) & Incirlik (EUCOM)**
- **Will provide 911 SPEARR capability**
 - **2 hour alert posture, 24 hrs / day, 7 days / week**
 - **1 x SPEARR now**
 - **2 x SPEARRs by AEF Cycle 3 (Feb 02)**

EMEDS / SPEARR SUMMIT

911 RESPONSE OPTIONS

AEF Sustainment:

- **Prepositioned coverage for CENTCOM, EUCOM, SOUTHCOM**
- **PACOM has Tri-Service Response Capability**
- **JFCOM effectively without 911 response capability**

EMEDS / SPEARR SUMMIT

SPEARR AND +25 BUILD PROGRAM

Assumptions:

- **EMEDS transition completed by end of FY02**
- **EMEDS + 25 authorizations questioned after OPLAN review**
- **Overseas activities still build to + 25 capability**
- **Accelerated SPEARR packages “Centrally” built**

EMEDS / SPEARR SUMMIT

SPEARR AND +25 BUILD PROGRAM

- **Funding is required for manpower to build**
- **Manpower concern to sustain new assemblages**
- **Provides time to acquire more storage requirements**
- **Potential increase in FY02 manpower requirements and workload**
- **Accelerates 10 FY02 SPEARR Equipment Packages to FY01**
- **Exceeds FY01 SPEARR Team Manpower Capability by 8 Sets**

EMEDS / SPEARR SUMMIT TRAINING

- **Training slots must be reallocated to Med Centers vs. lead wings with short lead time**
- **Instructors and SPEARR UTCs sourced from same limited AFSC pool**
- **Plan does not include formal RC training in FY 01**
- **EMEDS +25 training accomplished by annual inventory / exercise and Just-in-Time training**
- **Field Train up to 20 of 33 SPEARRs FY01**
- **Lakenheath / Elmendorf must receive training ASAP**

SUMMIT RECOMMENDATIONS

- **Delay building 4 EMEDS +25**
- **Delay all EMEDS +25 formal training**
- **Divert EMEDS+25 funds to accelerate FFEE8 packages and training for SPEARR teams**
- **Authorize Cycle 3 sourcing (June 01) of Lakenheath and Elmendorf MFST and EP1 UTCs**
- **Top down direction for Elmendorf and Lakenheath to Ben Taub / Baltimore by end of calendar year 01**
 - **Will impact Managed Care Support contracts**

EMED / SPEARR SUMMIT

AF/SG APPROVALS

- **Delay 4 x EMEDS +25 builds and all EMEDS +25 formal training**
 - **Allows more rapid acquisition / training of SPEARR teams**
- **Authorize sourcing of Lakenheath and Elmendorf by June for cycle 3 sourcing**
- **Top down direction for Elmendorf and Lakenheath to Ben Taub / Baltimore by end of calendar year 01**

EMEDS / SPEARR SUMMIT

- **Formalize / centrally fund thru education and training BA EMEDS courses / Readiness Skills Training Centers**
 - **Provides manpower, sustainment, TDY dollars**
 - **Provides centralized tracking of training thru AFTMS (Air Force Training Management System)**
 - **Formal courses more likely to get Wing CCs' support**

EMEDS / SPEARR SUMMIT

EXTERNAL SG COORDINATION

- **Request CSAF waiver to re-allocate units in cycle 2**
- **Prepare Corona brief to solicit CINC 911 requirements and support for development of unified command plans**
 - **Define projected AFMS rapid response capability**
 - **Timeline for IOC and FOC**
 - **Will be used to develop CONPLAN / OPLAN**

SUMMARY

Rapidly Changing Capability:

- **Things may have already changed after recent MRL meeting**
- **Global Engagement – cover the full spectrum**
 - **911 Response, HUMROs, SSCs**
- **Limited resources – money and manpower**
- **Must be able to get to the fight – “light & lean”**
- **Need “full-up, multi-functional rounds”- RSVP**
- **Can’t forget our OPLANS**

QUESTIONS?



**“In the middle of difficulty lies opportunity”
- Albert Einstein**